

4. $(x^2 + 3x - 7) \div (x - 2)$

SYNTHETIC DIVISION

① $x - 2 = 0$
 $x = 2$

②

2	x^2	1	3	no x	-7
			2	10	
		1	5	3	
		x	no x	Rem	

~~ADD~~

~~MULT~~

~~ADD~~

~~MULT~~

~~ADD~~

MULT

$x + 5 + \frac{3}{x - 2}$

5. $(9x^2 - 4x - 3) \div (x - 2)$

① $x - 2 = 0$
 $x = 2$

②

2	x^2	9	-4	no x	-3
			18	28	
		9	14	25	
		x	no x	Rem	

$9x + 14 + \frac{25}{x - 2}$

6. $(x^5 + 3x^4 - 4x^2 + x + 2) \div (x - 2)$

① $x - 2 = 0$
 $x = 2$

②

2	x^5	x^4	x^3	x^2	x	no x
	1	3	0	-4	1	2
		2	10	20	32	66
	1	5	10	16	33	68
	x^4	x^3	x^2	x	no x	Rem

$x^4 + 5x^3 + 10x^2 + 16x + 33 + \frac{68}{x - 2}$